

ARTIFICIAL NAIL ATTACHED WITH ADHESION STICKER HAVING GLITTER

BACKGROUND OF THE INVENTION

5 1. Field of the Invention

The present invention pertains to an artificial nail attached with an adhesion sticker having glitter, characterized in that the glitter is added to the adhesion sticker, whereby an outer appearance of the artificial nail improves and, simultaneously, the generation of air bubbles in the sticker is reduced, therefore strengthening the adhesive of the sticker. Further, since the artificial nail is provided in the state of the adhesion sticker being attached to a back surface thereof, it can be conveniently used. As well, after the use of the artificial nail, only the sticker attached to the back surface of the artificial nail is replaced with new ones, thereby recycling the artificial nail.

2. Description of the Related Art

20 With great advances in the cosmetic industries, artificial nails are becoming popular. Carefully cared for long, and beautifully colored nails are recognized as an essential cosmetic part increasing the feminacy and the beauty of women. However, artificial nails presently commercially available have

no adhesion means on a back surface thereof, and thus an adhesive is additionally attached thereto and used.

In such a case, after the adhesive attached to the back surface of the artificial nail is removed therefrom, it is
5 difficult to recycle the artificial nail, attributable to the used back surface thereof. In addition, although a remover is used to remove the attached adhesive, the skin is often irritated.

Hence, to solve the above problems, an adhesion sticker
10 for use in artificial nails is developed. However, this sticker suffers from a drastically decreased adhesive strength, due to the generation of air bubbles upon the preparation of the sticker. In addition, with the aim of increasing the adhesive strength, PVC sol is added to the sticker. But, when
15 the PVC sol is excessively used, the problem, such as contamination of the back surface of the artificial nail upon removing the sticker, may result.

Accordingly, with the intention of improving the above disadvantages, Korean Patent No. 0370375 discloses an adhesive-
20 attached artificial nail and a preparation method thereof, in which a certain hatching portion is formed on a back surface of the artificial nail and an adhesive is attached to the hatching portion. The above patent is advantageous in terms of easy attachment and detachment of the adhesive, but is
25 disadvantageous in that it is difficult to produce a mold

having a cavity of the hatching portion. In addition, the formation of the hatching portion results in fragility of the artificial nail around the hatching portion, and the reduction in adhesive strength due to air bubbles generated upon the
5 preparation of the adhesive.

SUMMARY OF THE INVENTION

Therefore, it is an aspect of the present invention to
10 alleviate the problems encountered in the related art and to provide an artificial nail, which is attached with an adhesion sticker having high adhesive strength.

Another aspect of the present invention is to provide an artificial nail, which is attached with an adhesion sticker
15 having glitter to exhibit an improved outer appearance.

A further aspect of the present invention is to provide an artificial nail, which is easily wearable and recyclable.

To accomplish the above aspects, there is provided an artificial nail for nail art, comprising an adhesion sticker
20 including acrylic emulsion glue compressed by a silkscreen-printing process, attached to a lower back end of the artificial nail.

The artificial nail is characterized in that the adhesion sticker includes three sheets having a first sheet, a second
25 sheet and a third sheet compressed together, and the second

sheet includes glitter.

The artificial nail is characterized in that the second sheet includes 4-8 wt% of the glitter based on 100 wt% of the acrylic emulsion glue.

5 In addition, there is provided an artificial nail for nail art, comprising an adhesion sticker including a mixture of an adhesive and PVC sol compressed by a silkscreen-printing process, attached to a lower back end of the artificial nail.

The artificial nail is characterized in that the adhesion
10 sticker includes 70-80 wt% of acrylic emulsion glue, as the adhesive, and 20-30 wt% of PVC sol.

The artificial nail is characterized in that the adhesion sticker includes 4-8 wt% of glitter based on 100 wt% of the acrylic emulsion glue.

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BRIEF DESCRIPTION OF THE DRAWINGS

These and other aspects and advantages of the invention will become apparent and more readily appreciated from the
20 following description of the preferred embodiments, taken in conjunction with the accompanying drawings of which:

FIG. 1 is a perspective view of an artificial nail attached with an adhesion sticker, according to the present invention;

25 FIG. 2 is a sectional view of the adhesion sticker

attached to the artificial nail; and

FIG. 3 shows the artificial nail when being practically used.

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DETAILED DESCRIPTION OF THE INVENTION

Hereinafter, a detailed description will be given of an artificial nail of the present invention, in conjunction with the accompanying drawings.

10 With reference to FIG. 1, a perspective view of the artificial nail attached with an adhesion sticker of the present invention is shown. In addition, FIG. 2 is a sectional view of the adhesion sticker attached to the artificial nail, and FIG. 3 shows the artificial nail when being practically
15 used.

As shown in FIG. 1, the present invention comprises an artificial nail 10, and an adhesion sticker 20 attached to a lower back end of the artificial nail 10.

The artificial nail is injected by use of a mold. As a
20 molding material of the artificial nail, ABS (Acrylonitrile-Butadiene-Styrene) resin is conventionally used. To prevent the artificial nail from cracking and puncturing upon injection thereof, ABS TR557i synthetic resin, which is 25% further improved in impact resistance and heat resistance than
25 conventional ABS, is preferably used. Additionally, a pigment

corresponding to a desirable color is added to the ABS TR557i synthetic resin, thus displaying desired colors.

Further, the adhesion sticker 20, which is adhered to the lower back end of the artificial nail 10, is obtained by
5 silkscreen-printing an adhesive.

The adhesive is exemplified by acrylic emulsion glue, which consists mainly of 65-70% of ethylene vinyl acetate acrylic ester copolymer, 25-30% of water, and 5-10% of other synthetic additives. Such an adhesive is a solid at room
10 temperature.

Because of having a melting point of about 100°C, the acrylic emulsion glue is heated to about 100°C and printed with a silkscreen, to prepare the adhesion sticker.

Specifically, the molten adhesive mixture is poured onto a
15 silkscreen. Then, a first mixture passed through the silkscreen is rolled by use of a compression roller, to prepare a first sheet 22. On the first sheet 22, a second mixture passed through the silkscreen is compressed by the compression roller. Thereby, a second sheet 24 is joined onto the first
20 sheet 22. Thereafter, a third mixture passed through the silkscreen is subjected to rolling compression by the compression roller on the second sheet 24, whereby a third sheet 28 is joined onto the second sheet 24.

The second sheet 24 of the adhesion sticker 20 is added
25 with glitter 26. As such, based on 100 wt% of the adhesion

sticker 20, the glitter 26 is added in an amount of 4-8 wt%, and preferably, 5 wt%.

The addition of the glitter 26 to the adhesion sticker 20 leads to an improved outer appearance of the artificial nail
5 10. As well, air bubbles can be generated in smaller quantities upon the preparation of the adhesion sticker 20, and the adhesive strength of the adhesion sticker 20 is increased.

Further, the glitter 26 should be contained in the second sheet 24. If the glitter is contained in the first sheet and
10 the third sheet of the adhesion sticker attached to the back surface of the artificial nail and the fingernail, the glitter may stick to the fingernail and exist on the back surface of the artificial nail upon removal of the adhesion sticker. Thereby, it is difficult to recycle the artificial nail.

15 Turning now to FIG. 2, the adhesion sticker 20 having three sheets 22, 24 and 28 is shown. The adhesion sticker 20 includes preferably at least two sheets, and more preferably, three to seven sheets joined together.

Physical and chemical properties of the acrylic emulsion
20 glue are shown in Table 1, below.

TABLE 1

Physical Form	Solid
Outer Appearance/Odor	Amber/No Odor
Boiling Point	250°C

Melting Point	90-100°C
Density	1 g/cm ³
Vapor Pressure (mmHg)	Not Applicable
Volatility	No
Autoflammability	No
Oxidizing Power	No

Physical and chemical properties of the adhesion sticker 20 are shown in Table 2, below.

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TABLE 2

Physical Form	Melting Fluid
Outer Appearance/Odor	Amber/No Odor
Boiling Point	230°C
Melting Point	90-100°C
Density	1.1 g/cm ³
Vapor Pressure (mmHg)	Not Applicable
Volatility	No
Autoflammability	No
Oxidizing Power	No

As shown in Table 2, the adhesion sticker prepared by a silkscreen-printing process can be in the state of a gel, without odors and volatile. Thus, the viscosity of the adhesion sticker is maintained at a predetermined level. Further, the adhesion sticker of the present invention, having no oxidizing power, causes no oxidation with the artificial nail, and thus is harmless to the human bodies.

15 The adhesion sticker 20 is composed of 20-30 wt% of PVC sol in a mixture with 70-80 wt% of the acrylic emulsion glue.

Preferably, the adhesion sticker 20 includes 75 wt% of acrylic emulsion glue and 25 wt% of PVC sol.

Hence, the mixture of acrylic emulsion glue and PVC sol is subjected to silkscreen-printing, whereby the sticker has
5 increased adhesive strength and less chance of tearing.

As described above, the present invention provides an artificial nail attached with an adhesion sticker, characterized in that glitter is added to the adhesion sticker,
10 whereby an outer appearance of the artificial nail improves, and air bubbles are generated in smaller quantities in the sticker, thus increasing adhesive strength. Further, since the artificial nail is provided in the state of the adhesion sticker being attached to a back surface thereof, it is more
15 convenient for the user. As well, after the use of the artificial nail, only the sticker attached to the back surface of the artificial nail is replaced with new ones, and thus the artificial nail can be easily recycled.

The present invention has been described in an
20 illustrative manner, and it should be understood that the terminology used is intended to be in the nature of description rather than of limitation. Many modifications and variations of the present invention are possible in light of the above teachings. Therefore, it should be understood that within the

scope of the appended claims, the invention may be practiced otherwise than as specifically described.